

BAINELLA RENNIE, 1930 (ARTHROPODA, TRILOBITA):  
PROPOSED CONSERVATION UNDER THE PLENARY POWERS  
BY SUPPRESSION OF ANCHIOPELLA REED, 1907. Z.N.(S.)2368

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In discussing the Bokkeveld trilobites, Reed (1907) noted that the 'phacopids' could be divided into two species groups. For *Phacops caffer* Salter, *Ph. impressus* Lake, *Ph. ocellus* Lake and *Ph. callitris* Schwarz he suggested the name *Metacryphaeus* whilst noting that '... the remaining Phacopidae from the Bokkeveld Beds seem to fall into another group which in many respects resembles that containing *Dalmanites anchiops*, Green ... I would refer this whole set of species to a special subgroup of *D. anchiops* characterised (1) by fewer (typically 8) segments in the pygidium, only 5 pairs of ribs being present as a rule on the lateral lobes; (2) by the presence of median spines on the axis of thorax and pygidium; (3) by small, instead of stout and long, genal spines ...; (4) by less pronounced coalescence of first and second lateral lobes of glabella. (Nom. prop. *Anchiopella*)' (p. 169).

2. The only species specifically referred to by Reed (1907) as belonging to this 'special subgroup' were *Ph. cristagalli* (Woodward), *Ph. arbuteus* Lake, *Ph. acacia* Schwarz and *Ph. africanus* Salter and, in the first subsequent revision of these species, Reed (1925a, p. 127) stated that '... the name *Anchiopella* was suggested by the author in 1907 for the subgenus of *Dalmanites*, comprising *D. cristagalli*, *D. acacia* (= *africanus* Salter *sens. restr.*) and *D. arbuteus*.'

3. However, in the same year, whilst discussing certain Silurian species, Reed (1925b, p. 75) noted that '... the Lower Devonian subgenus *Anchiopella* possesses more of their characters, and Hall particularly mentions the usual absence of 'duplication' (= pleural furrows) on the pygidial pleurae of the type species *Dalmanites anchiops*, ...'.

4. In 1927, Reed categorically stated that '... the type which was chosen for this special group [*Anchiopella*] and exemplified by *Dalmanites anchiops* Green, was *Ph. cristagalli* (Woodw.), with *Ph. africanus* Salt., *Ph. arbuteus* Lake and *Ph. acacia* Schwarz as other members of the group' (p. 310).

5. Rennie (1930) discussed the nomenclatural problems surrounding *Anchiopella* and concluded that since the first reference to a type species of *Anchiopella* was that of Reed (1925b, p. 75), who cited *D. anchiops* (Green), '... *Anchiopella* must fall or stand on an interpretation of that species' (p. 333). Consequently, Rennie (1930) transferred all those species assigned by Reed (1925a) to *Dalmanites* (*Anchiopella*) to his new genus *Bainella*, type species *Bainella bokkeveldensis* Rennie, 1930.

6. Rennie's (1930) treatment has generally been followed and

*Bainella* has become a widely accepted (Harrington *et al.*, 1959; Baldis, 1967; Eldredge & Braniša, 1980) and distinctive genus of calmoniid trilobite. On the other hand, *Anchiopella* is an obscure genus which has not been used for the *Calymene anchiops* Green group in any of the major studies of this plexus (Delo, 1935 and 1940; Howell, 1951; Stumm, 1954; Lespérance & Bourque, 1971).

7. Lespérance & Bourque (1971) again discussed the nomenclatural problems surrounding *Anchiopella*. They pointed to the fact that this taxon had been created for a 'special subgroup of *D. anchiops*', which was diagnosed by opposition to the group of *Calymene anchiops* Green and hence could not possibly include the latter species. They concluded that *Anchiopella* was a valid taxon whose type species was *Phacops cristagalli* (Woodward).

8. It is now clear that:

- (1) *Anchiopella* Reed, 1907 was created for what was believed to be a special subgroup of *Calymene anchiops* Green, typified by the species *Ph. cristagalli* (Woodward), *Ph. arbuteus* Lake, *Ph. acacia* Schwarz and *Ph. africanus* Salter;
- (2) this subgroup was referred (Reed, 1907, p. 169) to as 'the *cristagalli* group' and was diagnosed by *contradistinction* to the group of *Calymene anchiops* Green;
- (3) the diagnosis of *Anchiopella* specifically excludes *Calymene anchiops* Green;
- (4) *Anchiopella* is a valid taxon whose type species, by the subsequent designation of Reed (1927), is *Encrinurus cristagalli* Woodward, 1873;
- (5) the genus *Bainella* Rennie, 1930 is a junior subjective synonym of *Anchiopella* Reed, 1907.

9. The name *Anchiopella* has not been applied to the species group for which it was originally created since 1927 and hence may rightfully be considered a forgotten name. If stability in the nomenclature is to be maintained, the genus *Anchiopella* Reed, 1907 should be suppressed in favour of *Bainella* Rennie, 1930.

10. The International Commission on Zoological Nomenclature is therefore asked:

- (1) to use its plenary powers to suppress the generic name *Anchiopella* Reed, 1907, for the purposes of the Law of Priority but not for those of the Law of Homonymy;
- (2) to place the generic name *Bainella* Rennie, 1930 (gender: feminine), type species, by original designation, *Bainella bokkeveldensis* Rennie, 1930, on the Official List of Generic Names in Zoology;
- (3) to place the specific name *bokkeveldensis* Rennie, 1930, as published in the binomen *Bainella bokkeveldensis* (specific name of type species of *Bainella* Rennie, 1930) on the Official List of Specific Names in Zoology;

- (4) to place the generic name *Anchiopella* Reed, 1907, as suppressed under the plenary powers in (1) above, on the Official Index of Rejected and Invalid Generic Names in Zoology.

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